

1     ABSTRACT OF THE DISCLOSURE

2             The invention encompasses a method of incorporating nitrogen into  
3     a silicon-oxide-containing layer. The silicon-oxide-containing layer is  
4     exposed to a nitrogen-containing plasma to introduce nitrogen into the  
5     layer. The nitrogen is subsequently thermally annealed within the layer  
6     to bond at least some of the nitrogen to silicon within the layer. The  
7     invention also encompasses a method of forming a transistor. A gate  
8     oxide layer is formed over a semiconductive substrate. The gate oxide  
9     layer comprises silicon dioxide. The gate oxide layer is exposed to a  
10    nitrogen-containing plasma to introduce nitrogen into the layer, and the  
11    layer is maintained at less than or equal to 400°C during the exposing.  
12    Subsequently, the nitrogen within the layer is thermally annealed to bond  
13    at least a majority of the nitrogen to silicon. At least one conductive  
14    layer is formed over the gate oxide layer. Source/drain regions are  
15    formed within the semiconductive substrate, and are gatedly connected  
16    to one another by the at least one conductive layer. The invention also  
17    encompasses transistor structures.